

Title (en)
MONOCLONAL ANTIBODIES HAVING HOMOSUBTYPE CROSS -NEUTRALIZATION PROPERTIES AGAINST INFLUENZA A VIRUSES
SUBTYPE H1

Title (de)
MONOKLONALE ANTIKÖRPER MIT HOMOSUBTYP-KREUZNEUTRALISIERUNGSEIGENSCHAFTEN GEGEN INFLUENZA-A-VIREN VOM
SUBTYP H1

Title (fr)
ANTICORPS MONOCLONAUX AYANT DES PROPRIÉTÉS DE NEUTRALISATION CROISÉE DU MÊME SOUS-TYPE CONTRE LE SOUS-TYPE
H1 DU VIRUS DE LA GRIPPE A

Publication
EP 2294084 B2 20180905 (EN)

Application
EP 09754293 A 20090527

Priority
• IB 2009052212 W 20090527
• IT TO20080398 A 20080527

Abstract (en)
[origin: WO2009144667A1] A monoclonal antibody directed against the influenza A virus is described, which is capable of binding human and animal isolates of influenza A viruses expressing the HI -subtype hemagglutinin. A preferred embodiment is the antibody designated as Fab49, which shows a neutralizing activity against a plurality of influenza A virus isolates expressing the HI- subtype hemagglutinin, including animal-derived isolates. Anti-idiotypic antibodies directed against the monoclonal antibody of the invention, immunogenic or vaccine compositions comprising the monoclonal antibody of the invention are also described, as well as therapeutic, prophylactic and diagnostic applications for the monoclonal antibody of the invention. The monoclonal antibody of the invention can also be employed for testing antibody preparations to be used as vaccines.

IPC 8 full level
C07K 16/10 (2006.01); **A61P 31/16** (2006.01); **G01N 33/569** (2006.01); **G01N 33/577** (2006.01)

CPC (source: EP KR US)
A61K 39/395 (2013.01 - KR); **A61P 31/16** (2017.12 - EP); **C07K 16/1018** (2013.01 - EP KR US); **C07K 2317/21** (2013.01 - EP US); **C07K 2317/55** (2013.01 - EP US); **C07K 2317/56** (2013.01 - EP US); **C07K 2317/76** (2013.01 - EP US)

Citation (opposition)
Opponent :
• WO 2009115972 A1 20090924 - POMONA BIOTECHNOLOGIES LLC [US], et al
• WO 2008028946 A2 20080313 - CRUCELL HOLLAND BV [NL], et al
• KASHYAP A.K. ET AL: "Combinatorial antibody libraries from survivors of the Turkish H5N1 avian influenza outbreak reveal virus neutralization strategies", PNAS, vol. 105, no. 16, 22 April 2008 (2008-04-22), pages 5986 - 5991

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
WO 2009144667 A1 20091203; AU 2009252758 A1 20091203; AU 2009252758 B2 20140731; BR PI0912285 A2 20151020;
CA 2725627 A1 20091203; CA 2725627 C 20190806; CN 102124028 A 20110713; CN 102124028 B 20150520; EA 022855 B1 20160331;
EA 201071365 A1 20110830; EP 2294084 A1 20110316; EP 2294084 B1 20150909; EP 2294084 B2 20180905; ES 2555486 T3 20160104;
ES 2555486 T5 20190215; IL 209499 A0 20110131; IL 209499 A 20161031; IT TO20080398 A1 20091128; JP 2011524161 A 20110901;
JP 5792060 B2 20151007; KR 101665146 B1 20161011; KR 20110020865 A 20110303; MX 2010012974 A 20110121; NZ 590115 A 20120831;
SG 191610 A1 20130731; US 2011076265 A1 20110331; US 9243054 B2 20160126; ZA 201009273 B 20120501

DOCDB simple family (application)
IB 2009052212 W 20090527; AU 2009252758 A 20090527; BR PI0912285 A 20090527; CA 2725627 A 20090527;
CN 200980130479 A 20090527; EA 201071365 A 20090527; EP 09754293 A 20090527; ES 09754293 T 20090527; IL 20949910 A 20101122;
IT TO20080398 A 20080527; JP 2011511147 A 20090527; KR 20107029309 A 20090527; MX 2010012974 A 20090527;
NZ 59011509 A 20090527; SG 2013040647 A 20090527; US 99474609 A 20090527; ZA 201009273 A 20101223